ELSEVIER

Journal of Membrane Science 103 (1995) 295–296

journal of MEMBRANE SCIENCE

Contents

Analysis of mass transfer in composite materials with irregular interfaces
G. Xomeritakis and G. Glenn Lipscomb (Cincinnati, OH, USA) 1
Unusual mutual influence of electrolytes during pressure-driven transport of their mixtures across charged porous membranes
C. Bardot, E. Gaubert and A.E. Yaroshchuk (Villeurbanne, France) 11
Unstirred dead-end ultrafiltration: a method to determine diffusion coefficient or osmotic pressure for non-charged macromolecular solutions
S. Nicolas, I. Boulanouar and B. Bariou (Rennes, France) 19
Sorption and permeation of water and ethanol vapors in poly(vinylchloride) membrane
H. Okuno, K. Renzo and T. Uragami (Osaka, Japan) 31
Permeability, surface area, pore volume and pore size of Vycor glass membrane heat-treated at high temperatures
A.B. Shelekhin, S. Pien and Y.H. Ma (Worcester, MA, USA) 39
Ultrafiltration of Guayule Resin
R.S. Jeyaseelan and J.P. Wagner (Texas, USA) 45
Effect of operating variables and monomers on the formation of polyurea microcapsules
P. Ni, M. Zhang and N. Yan (Suzhou, China) 51
The optical resolution of amino acids by ultrafiltration membranes fixed with plasma polymerized ℓ-menthol
S. Tone, T. Masawaki and T. Hamada (Osaka, Japan) 57
Blend membranes of cellulose cuoxam/casein
L. Zhang, G. Yang and L. Xiao (Wuhan, China) 65
Properties of a polyimide gas separation membrane in natural gas streams
L.S. White, T.A. Blinka, H.A. Kloczewski and I. Wang (Columbia, MD, USA) 73
Properties of an anion exchange membrane in contact with aqueous solutions of sodium chloride and sodium benzenecarboxylate or benzenesulfonate
R. Delimi, J. Sandeaux, R. Sandeaux and C. Gavach (Montpellier, France) 83
Sulfonate containing aromatic polyamides as materials of pervaporation membranes for dehydration of organic solvents: hydration, sorption, diffusion and functioning
Yu.E. Kirsh (Moscow, Russia), Yu.A. Fedotov, S.I. Semenova, P.A. Vdovin (Vladimir, Russia), V.V. Valuev, O.Yu. Zemlianova and S.F. Timashev (Moscow, Russia) 95
An appropriate molecular size parameter for porous membranes calibration
M. Meireles, A. Bessieres, I. Rogissart, P. Aimar and V. Sanchez (Toulouse, France) 105
Electrolyte transport through nanofiltration membranes by the space-charge model and the comparison with Teorell–Meyer–Sievers model
X.-L. Wang, T. Tsuru, S. Nakao and S. Kimura (Tokyo, Japan) 117
Solvent extraction in multipass parallel-flow mass exchangers of microporous hollow-fiber modules
H.M. Yeh and C.M. Huang (Tamsui, Taiwan) 135
Possibility of pore size determination in separation layer of ceramic membrane using permeation method
P. Uchytil, Z. Wagner, J. Roček and Z. Brož (Prague, Czech Republic) 151
Permeation of solutes with different molecular size and hydrophobicity through the poly(vinyl alcohol)–graft-*N*-isopropylacrylamide copolymer membrane
T. Ogata, T. Nonaka and S. Kurihara (Kumamoto, Japan) 159
Gas permeation in polyarylates: effects of polarity and intersegmental mobility
A.Y. Houde, S.S. Kulkarni, U.K. Kharul, S.G. Charati and M.G. Kulkarni (Pune, India) 167
Preparation of supported composite membrane by pyrolysis of polycarbosilane for gas separation at high temperature
K. Kusakabe, Z.Y. Li, H. Maeda and S. Morooka (Fukuoka, Japan) 175

Flux decline behavior in dead-end microfiltration of protein solutions
E. Iritani, Y. Mukai, Y. Tanaka and T. Murase (Nagoya, Japan) 181

Hollow fiber contained liquid membrane pervaporation system for the removal of toxic volatile organics from wastewater
D. Yang, S. Majumdar, S. Kovenklioglu and K.K. Sirkar (Hoboken, NJ, USA) 195
Temporary carbon barriers in the preparation of H_2-permselective silica membranes
S. Jiang, Y. Yan and G.R. Gavalas (Pasadena, CA, USA) 211
Analysis of oxidative coupling of methane in dense oxide membrane reactors
W. Wang and Y.S. Lin (Cincinnati, OH, USA) 219
Effects of reactant loss and membrane selectivity on a dehydrogenation reaction in a membrane-enclosed catalytic reactor
Y.V. Gokhale, R.D. Noble and J.L. Falconer (Boulder, CO, USA) 235
Sorption, diffusion and permeation of 1,1,1-trichloroethane through adsorbent-filled polymeric membranes
W. Ji, S.K. Sikdar and S.-T. Hwang (Cincinnati, OH, USA) 243
Performance optimization of hollow fiber reverse osmosis membranes, Part I. Development of theory
V.M. Starov (Moscow, Russian Federation), J. Smart and D.R. Lloyd (Austin TX, USA) 257
Hydrophopic–hydrophilic composite membranes for the pervaporation of benzene–ethanol mixtures
E. Ruckenstein and F. Sun (Buffalo, NY, USA) 271

Meeting announcements 285
Meetings calendar 289
Author index 291
Subject index 293